

Title (en)  
TURBOCHARGER WITH ADJUSTABLE-TRIM CENTRIFUGAL COMPRESSOR

Title (de)  
TURBOLADER MIT ZENTRIFUGALKOMPRESSOR MIT ANPASSBAREM TRIM

Title (fr)  
TURBOCOMPRESSEUR AVEC COMPRESSEUR CENTRIFUGE À COMPENSATION RÉGLABLE

Publication  
**EP 3043045 B1 20180620 (EN)**

Application  
**EP 15199426 A 20151210**

Priority  
US 201414573603 A 20141217

Abstract (en)  
[origin: EP3043045A2] A centrifugal compressor for a turbocharger includes an inlet-adjustment mechanism in an air inlet for the compressor, operable to move between an open position and a closed position in the air inlet. The inlet-adjustment mechanism includes a variable-geometry orifice actuated by a rotatable actuator ring. In the closed position, the orifice's inner diameter is smaller than that of a shroud surface of the compressor housing and therefore dictates the effective inlet diameter for the compressor. In the open position the orifice no longer forms an inner diameter smaller than the shroud surface, so that the effective inlet diameter is determined by the shroud surface.

IPC 8 full level  
**F02C 6/12** (2006.01); **F01D 17/14** (2006.01); **F04D 27/02** (2006.01)

CPC (source: EP US)  
**F01D 17/146** (2013.01 - EP US); **F02C 6/12** (2013.01 - EP US); **F04D 27/002** (2013.01 - US); **F04D 27/0253** (2013.01 - US); **F04D 29/464** (2013.01 - EP US); **F01D 17/141** (2013.01 - EP US); **F01D 17/148** (2013.01 - EP US); **F05D 2220/40** (2013.01 - EP US); **F05D 2250/313** (2013.01 - EP US); **F05D 2250/51** (2013.01 - EP US); **F05D 2270/101** (2013.01 - EP US)

Cited by  
US2016146099A1; US9845723B2; DE102018202066A1; US11255256B2; WO2019170280A1; DE202018106027U1; DE102018218208A1; DE102018209558A1; US10900496B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3043045 A2 20160713**; **EP 3043045 A3 20161102**; **EP 3043045 B1 20180620**; CN 105715360 A 20160629; CN 105715360 B 20191025; EP 3392483 A1 20181024; US 2016177956 A1 20160623; US 9708925 B2 20170718

DOCDB simple family (application)  
**EP 15199426 A 20151210**; CN 201510941855 A 20151216; EP 18172496 A 20151210; US 201414573603 A 20141217